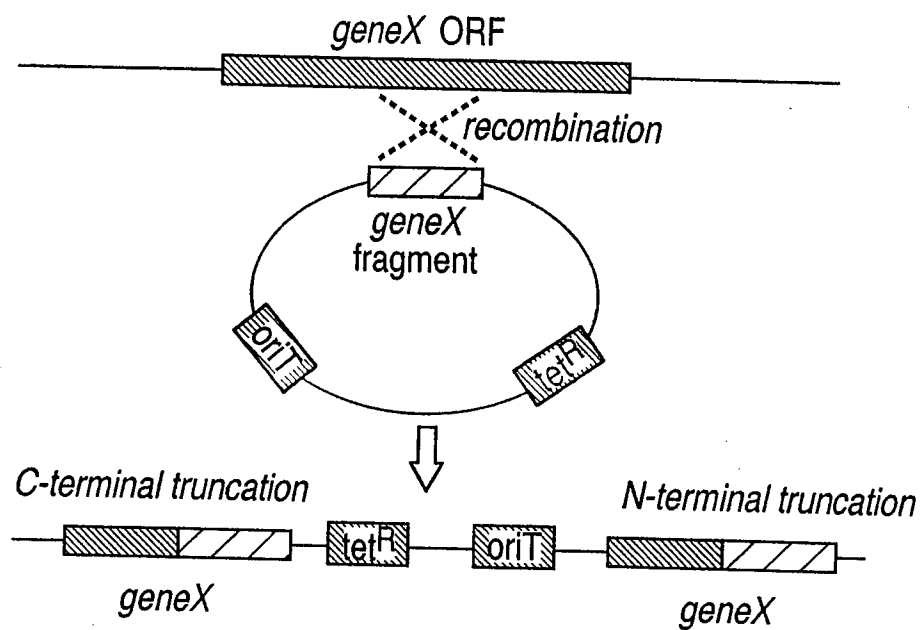
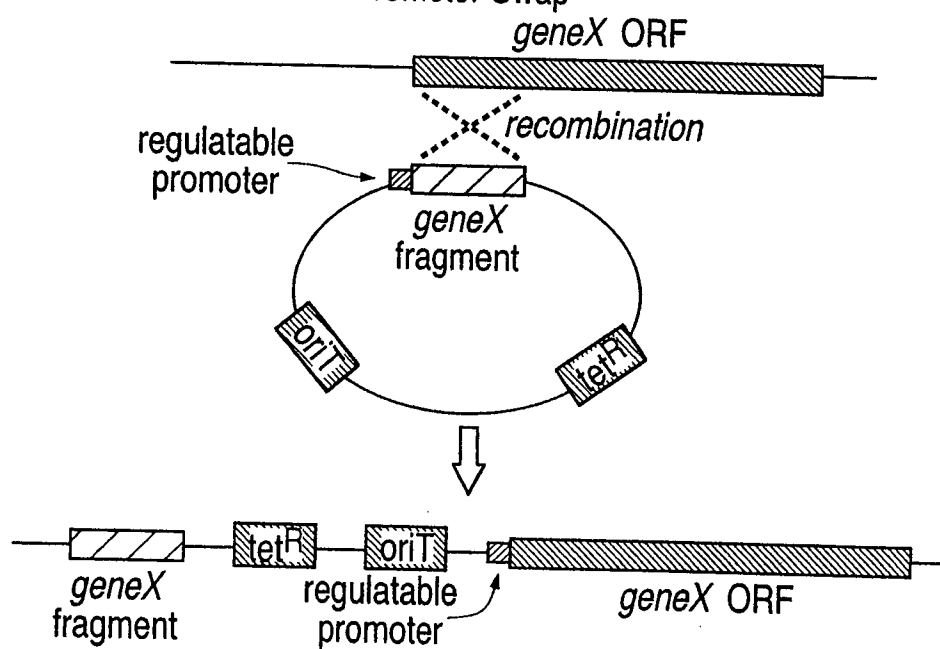


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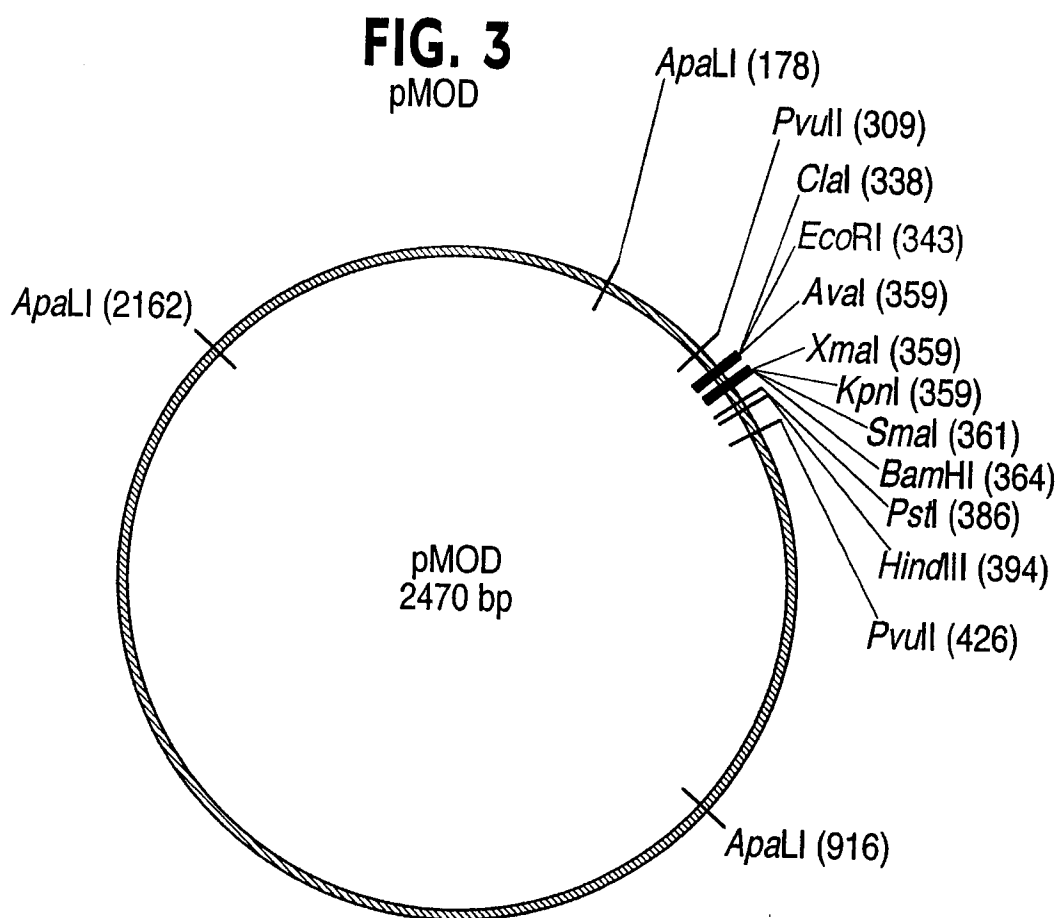
**FIG. 1**  
Single-crossover recombination



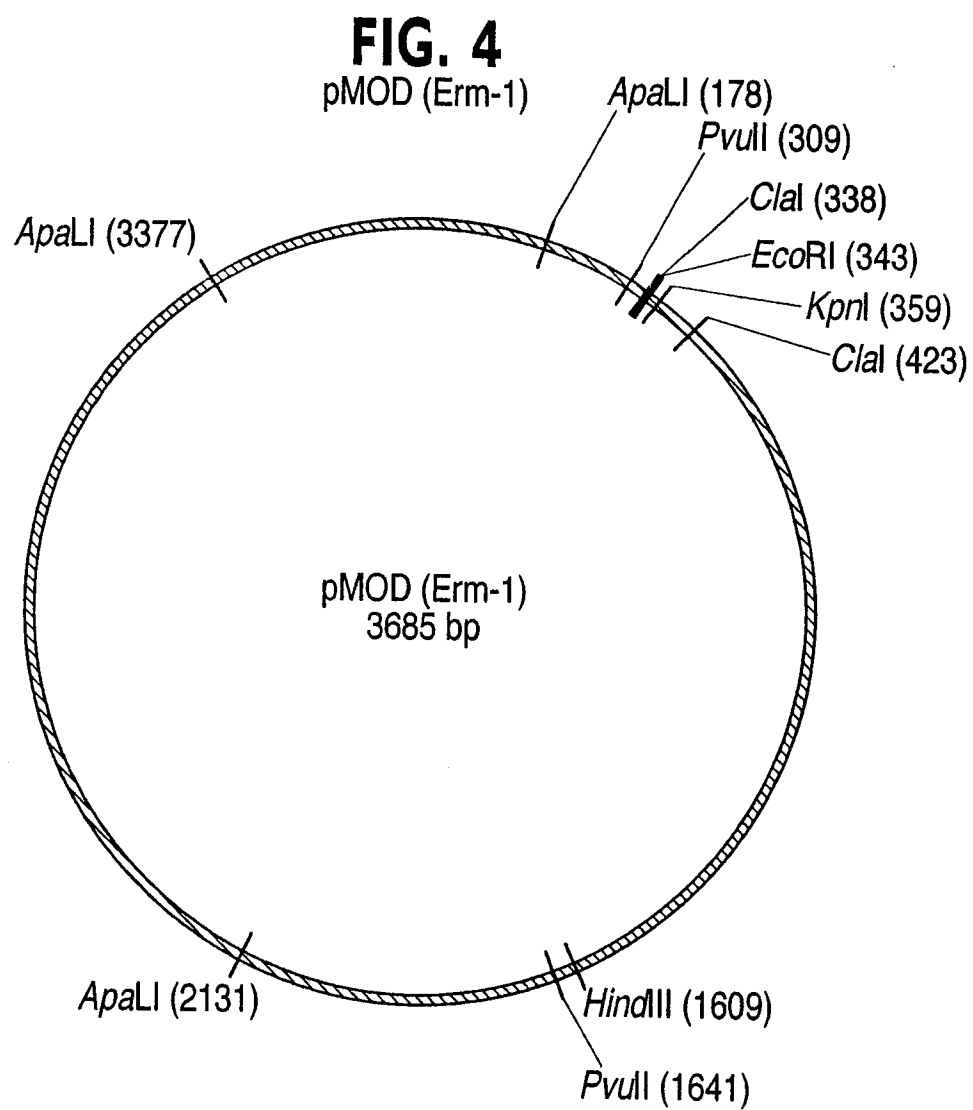
**FIG. 2**  
Promoter Swap



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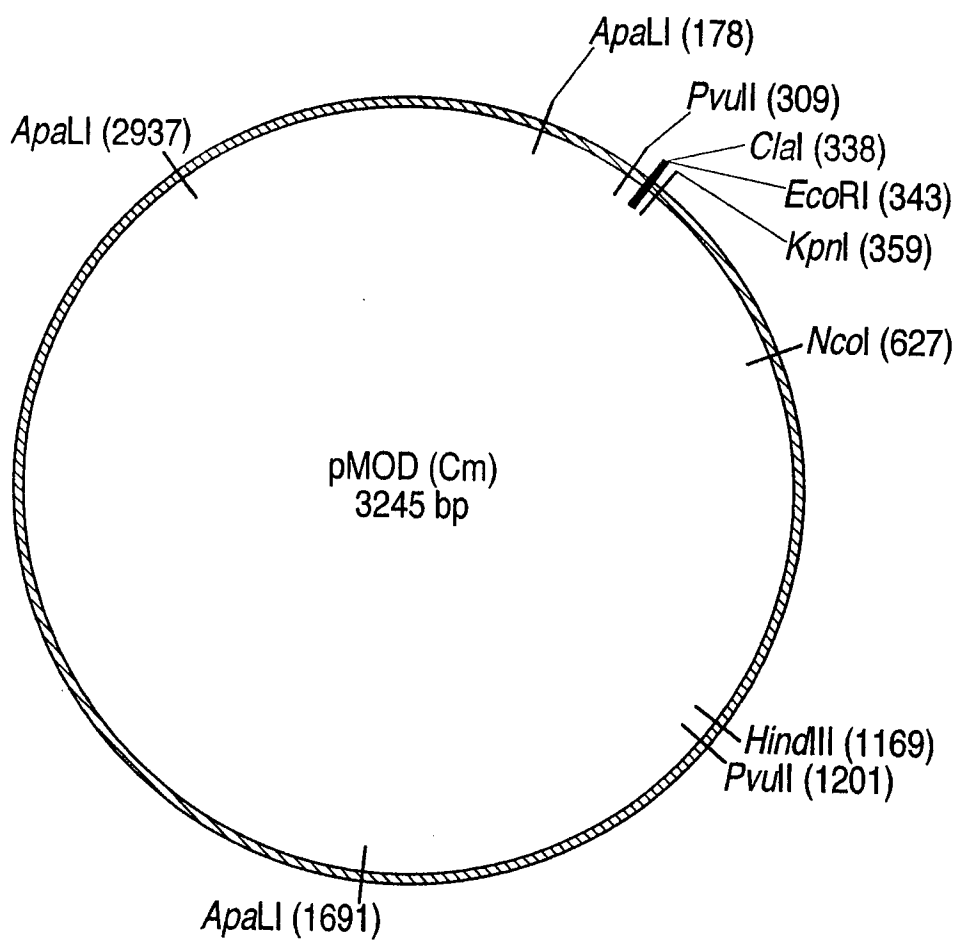


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**FIG. 5**  
pMOD (Cm)



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# FIG. 6A

			pMOD		
1	TCGCGCGTTT	CGGTGATGAC	GGTGA AAC	TCTGACACAT	GCAGCTCCCG
	AGCGCGCAA	GCCACTACTG	CCACTTTTGG	AGACTGTGTA	CGTCGAGGGC
51	GAGACGGTCA	CAGCTTGTCT	GTAAGCGGAT	GCCGGGAGCA	GACAAGCCCG
	CTCTGCCAGT	GTCGAACAGA	CATTGCGCTA	CGGCCCTCGT	CTGTTGCGGC
101	TCAGGGCGCG	TCAGCGGGTG	TTGGCGGGTG	TCGGGGCTGG	CTTAACATATG
	AGTCCCGCGC	AGTCGCCCCAC	AACCGCCAC	AGCCCCGACC	GAATTGATAC
			ApaI		
151	CGGCATCAGA	GCAGATTGTA	CTGAGAGTGC	ACCATATGCG	GTGTGAAATA
	GCCGTAGTCT	CGTCTAACAT	GACTCTCACG	TGGTATACGC	CACACTTTAT
201	CCGCACAGAT	GCGTAAGGAG	AAAATACCGC	ATCAGGCGCC	ATTCGCCATT
	GGCGTGTCTA	CGCATTCTCT	TTTTATGGCG	TAGTCCGCGG	TAAGCGGTAA
251	CAGGCTGCGC	AACTGTTGGG	AAGGGCGATC	GGTGGGGGCC	TCTTCGCTAT
	GTCCGACGCG	TTGACAACCC	TTCCCGCTAG	CCACGCCCGG	AGAAGCGATA
				EcoRI	
	PvuII			ClaI	
301	TAGCCAGCT	GTCTCTTATA	CACATCTCAA	CCATCATCGA	TGAATTCGAG
	ATGCGGTCGA	CAGAGAATAT	GTGTAGAGTT	GGTAGTAGCT	ACTTAAGCTC
	KpnI	BamHI			
	SmaI				
	XmaI				
	AvaI				
351	CTCGGTACCC	GGGGATCCTC	TAGAGTCGAC	PstI	HindIII
	GAGCCATGGG	CCCCTAGGAG	ATCTCAGCTG	CTGCAGGCAT	GCAAGCTTCA
			PvuII	GACGTCCGTA	CGTTTCAAGT
401	GGGTTGAGAT	GTGTATAAGA	GACAGCTGCA	TTAATGAATC	GGCCAACGCG
	CCCAACTCTA	CACATATTCT	CTGTGACGCT	AATTACTTAG	CCGGTTGCGC
451	CGGGGAGAGG	CGGTTTGCCT	ATTGGGCGCT	CTTCCGCTTC	CTCGCTCACT
	GCCCTCTCTC	GCCAAACGCA	TAACCCGCGA	GAAGGCGAAG	GAGCGAGTGA
501	GACTCGCTGC	GCTCGGTCGT	TCGGCTGCGG	CGAGCGGTAT	CAGTCACTC
	CTGAGCGACG	CGAGCCAGCA	AGCCGACGCC	GCTCGCCATA	GTCGAGTGAG
551	AAAGGCGGTA	ATACGGTTAT	CCACAGAATC	AGGGGATAAC	GCAGGAAAGA
	TTTCCGCCAT	TATGCCAATA	GGTGTCTTAG	TCCCCTATTG	CGTCTTTTCT
601	ACATGTGAGC	AAAAGGCCAG	CAAAAGGCCA	GGAACCGTAA	AAAGGCCGCG
	TGTACACTCG	TTTTCCGGTC	GTTTTCCGGT	CCTTGGCATT	TTTCCGGCGC
651	TTGCTGGCGT	TTTTCCATAG	GCTCCGCCCC	CCTGACGAGC	ATCACAAAAA
	AACGACCGCA	AAAAGGTATC	CGAGGCGGGG	GGACTGCTCG	TAGTGTTTTT
701	TCGACGCTCA	AGTCAGAGGT	GGCGAAACCC	GACAGGACTA	TAAAGATACC
	AGCTGCGAGT	TCAGTCTCCA	CCGCTTTGGG	CTGTCTGAT	ATTTCTATGG
751	AGGCGTTTCC	CCCTGGAAGC	TCCCTCGTGC	GCTCTCTGT	TCCGACCCTG
	TCCGCAAAGG	GGGACCTTCG	AGGGAGCACG	CGAGAGGACA	AGGCTGGGAC
801	CCGCTTACCG	GATACCTGTC	CGCCTTTCTC	CCTTCGGGAA	GCGTGGCGCT
	GGCGAATGGC	CTATGGACAG	GCGGAAAGAG	GGAAGCCCTT	CGCACCAGCA
851	TTCTCATAGC	TCACGCTGTA	GGTATCTCAG	TTCGGGTAG	GTCGTTTCGCT
	AAGAGTATCG	AGTGCGACAT	CCATAGAGTC	AAGCCACATC	CAGCAAGCGA
		ApaI			
901	CCAAGCTGGG	CTGTGTGCAC	GAACCCCCCG	TTCAGCCCGA	CCGCTGCGCC
	GGTTCGACCC	GACACACGTG	CTTGGGGGGC	AAGTCGGGCT	GGCGACGCGG

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# FIG. 6B

pMOD

951	TTATCCGGTA	ACTATCGTCT	TGAGTCCAAC	CCGGTAAGAC	ACGACTTATC
	AATAGGCCAT	TGATAGCAGA	ACTCAGGTTG	GGCCATTCTG	TGCTGAATAG
1001	GCCACTGGCA	GCAGCCACTG	GTAACAGGAT	TAGCAGAGCG	AGGTATGTAG
	CGGTGACCGT	CGTCGGTGAC	CATTGTCCTA	ATCGTCTCGC	TCCATACATC
1051	GCGGTGCTAC	AGAGTTCTTG	AAGTGGTGGC	CTAACTACGG	CTACACTAGA
	CGCCACGATG	TCTCAAGAAC	TTCACCACCG	GATTGATGCC	GATGTGATCT
1101	AGGACAGTAT	TTGGTATCTG	CGCTCTGCTG	AAGCCAGTTA	CCTTCGGAAA
	TCCTGTCATA	AACCATAGAC	GCGAGACGAC	TTCGGTCAAT	GGAAGCCTTT
1151	AAGAGTTGGT	AGCTCTTGAT	CCGGCAAACA	AACCACCGCT	GGTAGCGGTG
	TTCTCAACCA	TCGAGAACTA	GGCCGTTTGT	TTGGTGGCGA	CCATCGCCAC
1201	GTTTTTTTGT	TTGCAAGCAG	CAGATTACGC	GCAGAAAAAA	AGGATCTCAA
	CAAAAAAACA	AACGTTTCGT	GTCTAATGCG	CGTCTTTTTT	TCCTAGAGTT
1251	GAAGATCCTT	TGATCTTTTC	TACGGGGTCT	GACGCTCAGT	GGAACGAAAA
	CTTCTAGGAA	ACTAGAAAAA	ATGCCCCAGA	CTGCGAGTCA	CCTTGCTTTT
1301	CTCACGTTAA	GGGATTTTGG	TCATGAGATT	ATCAAAAAAG	ATCTTCACCT
	GAGTGCAATT	CCCTAAAACC	AGTACTCTAA	TAGTTTTTCC	TAGAAGTGGA
1351	AGATCCTTTT	AAATTAAAAA	TGAAGTTTTA	AATCAATCTA	AAGTATATAT
	TCTAGGAAAA	TTTAATTTTT	ACTTCAAAAT	TTAGTTAGAT	TTCATATATA
1401	GAGTAAACTT	GGTCTGACAG	TTACCAATGC	TTAATCAGTG	AGGCACCTAT
	CTCATTTGAA	CCAGACTGTC	AATGGTTACG	AATTAGTCAC	TCCGTGGATA
1451	CTCAGCGATC	TGTCTATTTT	GTTTATCCAT	AGTTGCCTGA	CTCCCGTCTG
	GAGTCGCTAG	ACAGATAAAG	CAAGTAGGTA	TCAACGGACT	GAGGGGCAGC
1501	TGTAGATAAC	TACGATACGG	GAGGGCTTAC	CATCTGGCCC	CAGTGCTGCA
	ACATCTATTG	ATGCTATGCC	CTCCCGAATG	GTAGACCGGG	GTCACGACGT
1551	ATGATACCGC	GAGACCCACG	CTCACC GGCT	CCAGATTTAT	CAGCAATAAA
	TACTATGGCG	CTCTGGGTGC	GAGTGGCCGA	GGTCTAAATA	GTCGTTATTT
1601	CCAGCCAGCC	GGAAGGGCCG	AGCGCAGAAG	TGGTCTTGCA	ACTTTATCCG
	GGTCGGTCCG	CCTTCCCGGC	TCGCGTCTTC	ACCAGGACGT	TGAAATAGGC
1651	CCTCCATCCA	GTCTATTAAT	TGTTGCCGGG	AAGCTAGAGT	AAGTAGTTCTG
	GGAGGTAGGT	CAGATAATTA	ACAACGGCCC	TTCGATCTCA	TTCATCAAGC
1701	CCAGTTAATA	GTTTGCGCAA	CGTTGTTGCC	ATTGCTACAG	GCATCGTGGT
	GGTCAATTAT	CAAACGCGTT	GCAACAACGG	TAACGATGTC	CGTAGCACCA
1751	GTCACGCTCG	TCGTTTGTA	TGGCTTCATT	CAGCTCCGGT	TCCCAACGAT
	CAGTGCGAGC	AGCAAACCAT	ACCGAAGTAA	GTCGAGGCCA	AGGGTTGCTA
1801	CAAGGCGAGT	TACATGATCC	CCCATGTTGT	GCAAAAAAGC	GGTTAGCTCC
	GTTCCGCTCA	ATGTACTAGG	GGGTACAACA	CGTTTTTTTCG	CCAATCGAGG
1851	TTCCGGTCTC	CGATCGTTGT	CAGAAGTAAG	TTGGCCGCAG	TGTTATCACT
	AAGCCAGGAG	GCTAGCAACA	GTCTTCATT	AACCGGCGTC	ACAATAGTGA
1901	CATGGTTATG	GCAGCACTGC	ATAATTCTCT	TACTGTCATG	CCATCCGTAA
	GTACCAATAC	CGTCGTGACG	TATTAAGAGA	ATGACAGTAC	GGTAGGCATT
1951	GATGCTTTTC	TGTGACTGGT	GAGTACTCAA	CCAAGTCATT	CTGAGAATAG
	CTACGAAAAG	ACACTGACCA	CTCATGAGTT	GGTTCAGTAA	GACTCTTATC
2001	TGTATGCGGC	GACCGAGTTG	CTCTTGCCCG	GCGTCAATAC	GGGATAATAC
	ACATACGCCG	CTGGCTCAAC	GAGAACGGGC	CGCAGTTATG	CCCTATTATG
2051	CGCGCCACAT	AGCAGAACTT	TAAAAGTGCT	CATCATTGGA	AAACGTTCTT
	GCGCGGTGTA	TCGTCTTGAA	ATTTTCACGA	GTAGTAACCT	TTTGAAGAA
2101	CGGGGCGAAA	ACTCTCAAGG	ATCTTACCGC	TGTTGAGATC	CAGTTCGATG
	GCCCCGCTTT	TGAGAGTTCC	TAGAATGGCG	ACAACTCTAG	GTCAGCTAC

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# FIG. 6C

		ApalI	pMOD		
2151	TAACCCACTC	GTGCACCCAA	CTGATCTTCA	GCATCTTTTA	CTTTCACCAG
	ATTGGGTGAG	CACGTGGGTT	GACTAGAAGT	CGTAGAAAAT	GAAAGTGGTC
2201	CGTTTCTGGG	TGAGCAAAAA	CAGGAAGGCA	AAATGCCGCA	AAAAAGGGAA
	GCAAAGACCC	ACTCGTTTTT	GTCCTTCCGT	TTTACGGCGT	TTTTTCCCTT
2251	TAAGGGCGAC	ACGGAAATGT	TGAATACTCA	TACTCTTCCT	TTTTCAATAT
	ATTCCCGCTG	TGCCTTTACA	ACTTATGAGT	ATGAGAAGGA	AAAAGTTATA
2301	TATTGAAGCA	TTTATCAGGG	TTATTGTCTC	ATGAGCGGAT	ACATATTTGA
	ATAACTTCGT	AAATAGTCCC	AATAACAGAG	TACTCGCCTA	TGTATAAACT
2351	ATGTATTTAG	AAAAATAAAC	AAATAGGGGT	TCCGCGCACA	TTTCCCGGAA
	TACATAAATC	TTTTTATTTG	TTTATCCCCA	AGGCGCGTGT	AAAGGGGCTT
2401	AAGTGCCACC	TGACGTCTAA	GAAACCATTA	TTATCATGAC	ATTAACCTAT
	TTCACGGTGG	ACTGCAGATT	CTTTGGTAAT	AATAGTACTG	TAATTGGATA
2451	AAAAATAGGC	GTATCACGAG			
	TTTTTATCCG	CATAGTGCTC			

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# FIG. 7A

pMOD (Erm-1)

1	TCGCGCGTTT	CGGTGATGAC	GGTGAAAACC	TCTGACACAT	GCAGCTCCCG
	AGCGCGCAAA	GCCACTACTG	CCACTTTTGG	AGACTGTGTA	CGTCGAGGGC
51	GAGACGGTCA	CAGCTTGTCT	GTAAGCGGAT	GCCGGGAGCA	GACAAGCCCG
	CTCTGCCAGT	GTGGAACAGA	CATTGCGCTA	CGGCCCTCGT	CTGTTGCGGC
101	TCAGGGCGCG	TCAGCGGGTG	TTGGCGGGTG	TCGGGGCTGG	CTTAACTATG
	AGTCCCGCGC	AGTCGCCCAC	AACCGCCCAC	AGCCCCGACC	GAATTGATAC
			ApalI		
151	CGGCATCAGA	GCAGATTGTA	CTGAGAGTGC	ACCATATGCG	GTGTGAAATA
	GCCGTAGTCT	CGTCTAACAT	GACTCTCACG	TGGTATACGC	CACACTTTAT
201	CCGCACAGAT	GCGTAAGGAG	AAAATACCGC	ATCAGGCGCC	ATTCGCCATT
	GGCGTGTCTA	CGCATTCTCT	TTTTATGGCG	TAGTCCGCGG	TAAGCGGTAA
251	CAGGCTGCGC	AAGTGTGGG	AAGGGCGATC	GGTGCGGGCC	TCTTCGCTAT
	GTCCGACGCG	TTGACAACCC	TTCCCGCTAG	CCACGCCCGG	AGAAGCGATA
				EcoRI	
	PvuII			Clal	
301	TACGCCAGCT	GTCTCTTATA	CACATCTCAA	CCATCATCGA	TGAATTCGAG
	ATGCGGTCTGA	CAGAGAATAT	GTGTAGAGTT	GGTAGTAGCT	ACTTAAGCTC
	KpnI				
351	CTCGGTACCG	TACCATTCAA	ATTTATCCTT	ATTGTACAAA	ATAACAGCGA
	GAGCCATGGC	ATGGTAAGTT	TAAATAGGAA	TAACATGTTT	TATTGTCGCT
			Clal		
401	AATTTTAAAT	TCTATTCCTT	ATCGATACAA	ATTCCCCGTA	GGCGCTAGGG
	TTAAAAATTT	AGATAAGGAA	TAGCTATGTT	TAAGGGGCAT	CCGCGATCCC
451	ACCTCTTTAG	CTCCTTGGAA	GCTGTACGTA	GTATACCTAA	TAATTTATCT
	TGGAGAAATC	GAGGAACCTT	CGACAGTCAT	CATATGGATT	ATTAATAGA
501	ACATTCCCTT	TAGTAACGTG	TAACCTTCCA	AATTTACAAA	AGCGACTCAT
	TGTAAGGGAA	ATCATTGCAC	ATTGAAAGGT	TTAAATGTTT	TCGCTGAGTA
551	AGAATTATTT	CCTCCCGTTA	AATAATAGAT	AACTATTAAA	AATAGACAAT
	TCTTAATAAA	GGAGGGCAAT	TTATTATCTA	TTGATAATTT	TTATCTGTTA
601	ACTTGCTCAT	AAGTAACGGT	ACTTAAATTG	TTTACTTTGG	CGTGTTCAT
	TGAACGAGTA	TTTATTGCCA	TGAATTTAAC	AAATGAAACC	GCACAAAGTA
651	TGCTTGTGAA	ACTGATTTTT	AGTAAACAGT	TGACGATATT	CTCGATTGAC
	ACGAACACTT	TGACTAAAAA	TCATTTGTCA	ACTGCTATAA	GAGCTAACTG
701	CCATTTTGAA	ACAAAGTACG	TATATAGCTT	CCAATATTTA	TCTGGAACAT
	GGTAAAACTT	TGTTTCATGC	ATATATCGAA	GGTTATAAAT	AGACCTTGTA
751	CTGTGGTATG	GCGGGTAAGT	TTTATTAAGA	CACTGTTTAC	TTTTGGTTTA
	GACACCATAC	CGCCCATTTA	AAATAATTCT	GTGACAAATG	AAAACCAAAT
801	GGATGAAAGC	ATTCCGCTGG	CAGCTTAAGC	AATTGCTGAA	TCGAGACTTG
	CCTACTTTTC	TAAGGCGACC	GTGGAATTCG	TTAACGACTT	AGCTCTGAAC
851	AGTGTGCAAG	AGCAACCCTA	GTGTTCCGGT	AATATCCAAG	GTACGCTTGT
	TCACACGTTT	TCGTTGGGAT	CACAAGCCAC	TTATAGGTTT	CATGCGAACA
901	AGAATCCTTC	TTCAACAATC	AGATAGATGT	CAGACGCATG	GCTTTCAAAA
	TCTTAGGAAG	AAGTTGTTAG	TCTATCTACA	GTCTGCGTAC	CGAAAGTTTT
951	ACCACTTTTT	TAATAATTTG	TGTGCTTAAA	TGGTAAGGAA	TATCCCAAC
	TGGTGAAAAA	ATTATTAAAC	ACACGAATTT	ACCATTCTTT	ATAAGGGTTG
1001	AATTTTATAC	CTCTGTTTGT	TAGGGAATTG	AAACTGTAGA	ATATCTTGGT
	TAAAAATATG	GAGACAAACA	ATCCCTTAAC	TTTGACATCT	TATAGAACCA



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# FIG. 7B

pMOD (Erm-1)

1051	GAATTAAAGT	GACACGAATG	TTCAGTTTTA	ATTTTTCTGA	CGATAAGTTG
	CTTAATTTCA	CTGTGCTTAC	AAGTCAAAAT	TAAAAAGACT	GCTATTCAAC
1101	AATAGATGAC	TGTCTAATTC	AATAGACGTT	ACCTGTTTAC	TTATTTTAGC
	TTATCTACTG	ACAGATTAAG	TTATCTGCAA	TGGACAAATG	AATAAAATCG
1151	CAGTTTCGTC	GTTAAATGCC	CTTTACCTGT	TCCAATTTCT	TAAACGGTAT
	GTCAAAGCAG	CAATTTACGG	GAAATGGACA	AGGTTAAAGC	ATTTGCCATA
1201	CGGTTTCTTT	TAAATTCAT	TGTTTTATTA	TTTGTTGAG	TACCTTTTCA
	GCCAAAGAAA	ATTTAAGTTA	ACAAAATAAT	AAACCAACTC	ATGGAAAAGT
1251	TTCGTTAAAA	AGTTTTGAGA	ATATTTTATA	TTTTTGTTCA	TGTAATCACT
	AAGCAATTTT	TCAAACTCT	TATAAAATAT	AAAAACAAGT	ACATTAGTGA
1301	CCTGAAGTGA	TACATCTATA	AATAAATACA	GAAGTTAAAC	GATTTGTTTG
	GGACTTCACT	ATGTAGATAT	TTATTTATGT	CTTCAATTTG	CTAAACAAAC
1351	TAATTTTAGT	TATCTGTTTA	AAAAGTCATA	AGATTAGTCA	CTGGTAGGAA
	ATTAATAATCA	ATAGACAAAT	TTTTCAGTAT	TCTAATCAGT	GACCATCCTT
1401	TTAATCTAAA	CGTATTTATC	TGCGTAATCA	CTGTTTTTAG	TCTGTTTCAA
	AATTAGATTT	GCATAAATAG	ACGCATTAGT	GACAAAAATC	AGACAAAGTT
1451	AACAGTAGAT	GTTTTATCTA	CATTACGCAT	TTGGAATACC	AACATGACGA
	TTGTCATCTA	CAAAATAGAT	GTAATGCGTA	AACCTTATGG	TTGTACTGCT
1501	ATCCCTCCTT	CTTAATTACA	AATTTTATAG	ATCTAATTTA	ACTTCAATTC
	TAGGGAGGAA	GAATTAATGT	TTAAAAATCG	TAGATTAAAT	TGAAGTTAAG
1551	CTATTATACA	AAATTTTAAG	ATAATGCACT	ATCAACACAC	TCTTAAGTTT
	GATAATATGT	TTTAAATTC	TATTACGTGA	TAGTTGTGTG	AGAATTCAAA
		HindIII		PvuII	
1601	GCTTCTAAAG	CTTCAGGGTT	GAGATGTGTA	TAAGAGACAG	CTGCATTAAT
	CGAAGATTTT	GAAGTCCCAA	CTCTACACAT	ATTCTCTGTC	GACGTAATTA
1651	GAATCGGCCA	ACGCGCGGGG	AGAGGCGGTT	TGCGTATTGG	GCGCTCTTCC
	CTTAGCCGGT	TGCGCGCCCC	TCTCCGCCAA	ACGCATAACC	CGCGAGAAGG
1701	GCTTCCTCGC	TCACTGACTC	GCTGCGCTCG	GTGTTTCGGC	TGCGGCGAGC
	CGAAGGAGCG	AGTGACTGAG	CGACGCGAGC	CAGCAAGCCG	ACGCCGCTCG
1751	GGTATCAGCT	CACTCAAAGG	CGGTAATACG	GTTATCCACA	GAATCAGGGG
	CCATAGTCGA	GTGAGTTTCC	GCCATTATGC	CAATAGGTGT	CTTAGTCCCC
1801	ATAACGCAGG	AAAGAACATG	TGAGCAAAAG	GCCAGCAAAA	GGCCAGGAAC
	TATTGCGTCC	TTTCTTGATC	ACTCGTTTTT	CGGTCGTTTT	CCGGTCCTTG
1851	CGTAAAAAGG	CCGCGTTGCT	GGCGTTTTTC	CATAGGCTCC	GCCCCCTGA
	GCATTTTTC	GGCGCAACGA	CCGCAAAAAG	GTATCCGAGG	CGGGGGGACT
1901	CGAGCATCAC	AAAAATCGAC	GCTCAAGTCA	GAGGTGGCGA	AACCCGACAG
	GCTCGTAGTG	TTTTTAGCTG	CGAGTTCAGT	CTCCACCCT	TTGGGCTGTC
1951	GACTATAAAG	ATACCAGGCG	TTTCCCCCTG	GAAGCTCCCT	CGTGCGCTCT
	CTGATATTTT	TATGGTCCGC	AAAGGGGGAC	CTTCGAGGGA	GCACGCGAGA
2001	CCTGTTCCGA	CCCTGCCGCT	TACCGGATAC	CTGTCCGCT	TTCTCCCTTC
	GGACAAGGCT	GGGACGGCGA	ATGGCCTATG	GACAGGCGGA	AAGAGGGAAC
2051	GGGAAGCGTG	GCCTTTTCTC	ATAGCTCACG	CTGTAGGTAT	CTCAGTTCGG
	CCCTTCGCAC	CGCGAAAGAG	TATCGAGTGC	GACATCCATA	GAGTCAAGCC
			ApaI		
2101	TGTAGGTCGT	TCGCTCCAAG	CTGGGCTGTG	TGCACGAACC	CCCCGTTTCA
	ACATCCAGCA	AGCGAGGTTT	GACCCGACAC	ACGTGCTTGG	GGGGCAAGTC
2151	CCCGACCGCT	GCCTTTATC	CGGTAACAT	CGTCTTGAGT	CCAACCCGGT
	GGGCTGGCGA	CGCGGAATAG	GCCATTGATA	GCAGAACTCA	GGTTGGGCCA

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# FIG. 7C

pMOD (Erm-1)

2201	AAGACACGAC	TTATCGCCAC	TGGCAGCAGC	CACTGGTAAC	AGGATTAGCA
	TTCTGTGCTG	AATAGCGGTG	ACCGTCGTCG	GTGACCATTG	TCCTAATCGT
2251	GAGCGAGGTA	TGTAGGCGGT	GCTACAGAGT	TCTTGAAGTG	GTGGCCTAAC
	CTCGCTCCAT	ACATCCGCCA	CGATGTCTCA	AGAACTTCAC	CACCGGATTG
2301	TACGGCTACA	CTAGAAGGAC	AGTATTTGGT	ATCTGCGCTC	TGCTGAAGCC
	ATGCCGATGT	GATCTTCCTG	TCATAAACCA	TAGACGCGAG	ACGACTTCGG
2301	AGTTACCTTC	GGAAAAAGAG	TTGGTAGCTC	TTGATCCGGC	AAACAAACCA
	TCAATGGAAG	CCTTTTCTC	AACCATCGAG	AACTAGGCCG	TTTGTGTTGGT
2401	CCGCTGGTAG	CGGTGGTTTT	TTTGTGTTGCA	AGCAGCAGAT	TACGCGCAGA
	GGCGACCATC	GCCACCAAAA	AAACAAACGT	TCGTGCTCTA	ATGCGCGTCT
2451	AAAAAAGGAT	CTCAAGAAGA	TCCTTTGATC	TTTTCTACGG	GGTCTGACGC
	TTTTTTCCTA	GAGTTCCTCT	AGGAAACTAG	AAAAGATGCC	CCAGACTGCG
2501	TCAGTGGAAC	GAAAACTCAC	GTAAAGGGAT	TTTGGTCATG	AGATTATCAA
	AGTCACCTTG	CTTTTGAGTG	CAATTCCCTA	AAACCAGTAC	TCTAATAGTT
2551	AAAGGATCTT	CACCTAGATC	CTTTTAAATT	AAAAATGAAG	TTTTAAATCA
	TTTCCTAGAA	GTGGATCTAG	GAAAATTTAA	TTTTTACTTC	AAAATTTAGT
2601	ATCTAAAGTA	TATATGAGTA	AACCTGGTCT	GACAGTTACC	AATGCTTAAT
	TAGATTTTCAT	ATATACTCAT	TTGAACCAGA	CTGTCAATGG	TTACCAATTA
2651	CAGTGAGGCA	CCTATCTCAG	CGATCTGTCT	ATTTCTGTTCA	TCCATAGTTG
	GTCACTCCGT	GGATAGAGTC	GCTAGACAGA	TAAAGCAAGT	AGGTATCAAC
2701	CCTGACTCCC	CGTCGTGTAG	ATAACTACGA	TACGGGAGGG	CTTACCATCT
	GGACTGAGGG	GCAGCACATC	TATTGATGCT	ATGCCCTCCC	GAATGGTAGA
2751	GGCCCCAGTG	CTGCAATGAT	ACCGCGAGAC	CCACGCTCAC	CGGCTCCAGA
	CCGGGGTCAC	GACGTTACTA	TGGCGCTCTG	GGTGCGAGTG	GCCGAGGTCT
2801	TTTATCAGCA	ATAAACCCAGC	CAGCCGGAAG	GGCCGAGCGC	AGAAGTGGTC
	AAATAGTCGT	TATTTGGTCG	GTCGGCCTTC	CCGGCTCGCG	TCTTCACCAG
2851	CTGCAACTTT	ATCCGCCTCC	ATCCAGTCTA	TTAATTGTTG	CCGGGAAGCT
	GACGTTGAAA	TAGGCGGAGG	TAGGTCAGAT	AATTAACAAC	GGCCCTTCGA
2901	AGAGTAAGTA	GTTCCGCCAGT	TAATAGTTTG	CGCAACGTTG	TTGCCATTGC
	TCTCATTTCAT	CAAGCGGTCA	ATTATCAAAC	GCGTTGCAAC	AACGGTAACG
2951	TACAGGCATC	GTGGTGTAC	GCTCGTCGTT	TGGTATGGCT	TCATTAGCT
	ATGTCCGTAG	CACCACAGTG	CGAGCAGCAA	ACCATACCGA	AGTAAGTCGA
3001	CCGTTTCCCA	ACGATCAAGG	CGAGTTACAT	GATCCCCCAT	GTTGTGCAAA
	GGCCAAGGGT	TGCTAGTTCC	GCTCAATGTA	CTAGGGGGTA	CAACACGTTT
3051	AAAGCGGTGA	GCTCCTTCGG	TCCTCCGATC	GTTGTCAGAA	GTAAGTTGGC
	TTTCGCCAAT	CGAGGAAGCC	AGGAGGCTAG	CAACAGTCTT	CATTCAACCC
3101	CGCAGTGTTA	TCACTCATGG	TTATGGCAGC	ACTGCATAAT	TCTCTTACTG
	GCGTCACAAT	AGTGAGTACC	AATACCGTCG	TGACGTATTA	AGAGAATGAC
3151	TCATGCCATC	CGTAAGATGC	TTTTCTGTGA	CTGGTGAGTA	CTCAACCAAG
	AGTACGGTAG	GCATTCTACG	AAAAGACACT	GACCACTCAT	GAGTTGGTTC
3201	TCATTCTGAG	AATAGTGTAT	GCGGCGACCG	AGTTGCTCTT	GCCCGGCGTC
	AGTAAGACTC	TTATCACATA	CGCCGCTGGC	TCAACGAGAA	CGGGCCGCAG
3251	AATACGGGAT	AATACCGCGC	CACATAGCAG	AACCTTAAAA	GTGCTCATCA
	TTATGCCCTA	TTATGGCGCG	GTGTATCGTC	TTGAAATTTT	CACGAGTAGT
3301	TTGGAAAACG	TTCTTCGGGG	CGAAAACCTCT	CAAGGATCTT	ACCGCTGTTG
	AACCTTTTGC	AAGAAGCCCC	GCTTTTGAGA	GTTCTAGAA	TGGCGACAAC

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# FIG. 7D

pMOD (Erm-I)

			ApalI		
3351	AGATCCAGTT	CGATGTAACC	CACTCGTGCA	CCCAACTGAT	CTTCAGCATC
	TCTAGGTCAA	GCTACATTGG	GTGAGCACGT	GGGTTGACTA	GAAGTCGTAG
3401	TTTTACTTTC	ACCAGCGTTT	CTGGGTGAGC	AAAAACAGGA	AGGCAAAATG
	AAAATGAAAG	TGGTCGCAAA	GACCCACTCG	TTTTTGTCCT	TCCGTTTTAC
3451	CCGCAAAAAA	GGGAATAAGG	GCGACACGGA	AATGTTGAAT	ACTCATACTC
	GGCGTTTTTT	CCCTTATTCC	CGCTGTGCCT	TTACAACCTA	TGAGTATGAG
3501	TTCCTTTTTT	AATATTATTG	AAGCATTTAT	CAGGGTTATT	GTCTCATGAG
	AAGGAAAAAG	TTATAATAAC	TTCGTAAATA	GTCCCAATAA	CAGAGTACTC
3351	CGGATACATA	TTTGAATGTA	TTAGAAAAA	TAAACAAATA	GGGGTTCCGC
	GCCTATGTAT	AAACTTACAT	AAATCTTTTT	ATTTGTTTAT	CCCCAAGGCG
3601	GCACATTTCC	CCGAAAAGTG	CCACCTGACG	TCTAAGAAAC	CATTATTATC
	CGTGTAAGG	GGCTTTTCAC	GGTGGACTGC	AGATTCTTTG	GTAATAATAG
3651	ATGACATTAA	CCTATAAAAA	TAGGCGTATC	ACGAG	
	TACTGTAATT	GGATATTTTT	ATCCGCATAG	TGCTC	

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# FIG. 8A

pMOD (Cm)

1	TCGCGCGT	CGGTGATGAC	GGTGAAAACC	TCTGACACAT	GCAGCTCCCG
	AGCGCGCAAA	GCCACTACTG	CCACTTTTGG	AGACTGTGTA	CGTCGAGGGC
51	GAGACGGTCA	CAGCTTGTCT	GTAAGCGGAT	GCCGGGAGCA	GACAAGCCCG
	CTCTGCCAGT	GTGGAACAGA	CATTGCGCTA	CGGCCCTCGT	CTGTTCCGGC
101	TCAGGGCGCG	TCAGCGGGTG	TTGGCGGGTG	TCGGGGCTGG	CTTAACATG
	AGTCCCGCGC	AGTCGCCCAC	AACCGCCCAC	AGCCCCGACC	GAATTGATAC
			ApalI		
151	CGGCATCAGA	GCAGATTGTA	CTGAGAGTGC	ACCATATGCG	GTGTGAAATA
	GCCGTAGTCT	CGTCTAACAT	GACTCTCAGC	TGGTATACGC	CACACTTTAT
201	CCGCACAGAT	GCGTAAGGAG	AAAATACCGC	ATCAGGCGCC	ATTCGCCATT
	GGCGTGTCTA	CGCATTCTC	TTTTATGGCG	TAGTCCGCGG	TAAGCGGTAA
251	CAGGCTGCGC	AACTGTTGGG	AAGGGCGATC	GGTGGGGGCC	TCTTCGCTAT
	GTCCGACGCG	TTGACAACCC	TTCCCGCTAG	CCACGCCCGG	AGAAGCGATA
				EcoRI	
	PvuII			Clal	
301	TACGCCAGCT	GTCTCTTATA	CACATCTCAA	CCATCATCGA	TGAATTCGAG
	ATGCGGTCGA	CAGAGAATAT	GTGTAGAGTT	GGTAGTAGCT	ACTTAAGCTC
	KpnI				
351	CTCGGTACCG	TTAGTGACAT	TAGAAAACCG	ACTGTAAAAA	GTACAGTCGG
	GAGCCATGGC	AATCACTGTA	ATCTTTTGGC	TGACATTTTT	CATGTCAGCC
401	CATTATCTCA	TATTATAAAA	GCCAGTCATT	AGGCCTATCT	GACAATTCCT
	GTAATAGAGT	ATAATATTTT	CGGTCAGTAA	TCCGGATAGA	CTGTAAAGGA
451	GAATAGAGTT	CATAAACAAT	CCTGCATGAT	AACCATCACA	AACAGAATGA
	CTTATCTCAA	GTATTTGTTA	GGACGTACTA	TTGGTAGTGT	TTGCTTACT
501	TGTACCTGTA	AAGATAGCGG	TAAATATATT	GAATTACCTT	TATTAATGAA
	ACATGGACAT	TTCTATCGCC	ATTTATATAA	CTTAATGGAA	ATAATTACTT
551	TTTTCTGCT	GTAATAATGG	GTAGAAGGTA	ATTACTATTA	TTATTGATAT
	AAAAGGACGA	CATTATTACC	CATCTTCCAT	TAATGATAAT	AATAACTATA
			NcoI		
601	TTAAGTTAAA	CCCAGTAAAT	GAAGTCCATG	GAATAATAGA	AAGAGAAAAA
	AATTCATTTT	GGGTCATTTA	CTTCAGGTAC	CTTATTATCT	TTCTCTTTTT
651	GCATTTTCAG	GTATAGGTGT	TTTGGGAAAC	AATTTCCCCG	AACCATTATA
	CGTAAAAGTC	CATATCCACA	AAACCCTTTG	TTAAAGGGGC	TTGGTAATAT
701	TTTCTCTACA	TCAGAAAGGT	ATAAATCATA	AAACTCTTTG	AAGTCATTCT
	AAAGAGATGT	AGTCTTTCCA	TATTTAGTAT	TTTGAGAAAC	TTCAGTAAGA
751	TTACAGGAGT	CCAAATACCA	GAGAATGTTT	TAGATACACC	ATCAAAAAAT
	AATGTCCTCA	GGTTTATGGT	CTCTTACAAA	ATCTATGTGG	TAGTTTTTAA
801	GTATAAAGTG	GCTCTAACTT	ATCCCAATAA	CCTAACTCTC	CGTCGCTATT
	CATATTTTAC	CGAGATTGAA	TAGGGTTATT	GGATTGAGAG	GCAGCGATAA
851	GTAACCAGTT	CTAAAAGCTG	TATTTGAGTT	TATCACCTT	GTCATAAGA
	CATTGGTCAA	GATTTTTCGAC	ATAAACTCAA	ATAGTGGGAA	CAGTGATTCT
901	AAATAAATGC	AGGGTAAAAT	TTATATCCTT	CTTGTTTTAT	GTTTCGGTAT
	TTTATTTACG	TCCCATTTTA	AATATAGGAA	GAACAAAATA	CAAAGCCATA
951	AAAACACTAA	TATCAATTTT	TGTGGTTATA	CTAAAAGTCG	TTTGTGGTT
	TTTTGTGATT	ATAGTTAAAG	ACACCAATAT	GATTTTCAGC	AAACAACCAA
1001	CAAATAATGA	TTAAATATCT	CTTTTCTCTT	CCAATTGTCT	AAATCAATTT
	GTTTATTACT	AATTTATAGA	GAAAAGAGAA	GGTTAACAGA	TTTAGTTAAA

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# FIG. 8B

pMOD (Cm)

1051	TATTAAGTT ATAATTTCAA	CATTTGATAT GTAAACTATA	GCCTCCTAAA CGGAGGATTT	TTTTTATCTA AAAAATAGAT	AAGTGAATTT TTCACTTAAA
1101	AGGAGGCTTA TCCTCCGAAT	CTTGTCTGCT GAACAGACGA	TTCTTCATTA AAGAAGTAAT	GAATCAATCC CTTAGTTAGG	TTTTTTAAAA AAAAAATTTT
1151	GTCAATATTA CAGTTATAAT	CTGTAACAAG GACATTGTTC	CTTCAGGGTT GAAGTCCCAA	GAGATGTGTA CTCTACACAT	TAAGAGACAG ATTCTCTGTC
1201	CTGCATTAAT GACGTAATTA	GAATCGGCCA CTTAGCCGGT	ACGCGCGGGG TGCGCGCCCC	AGAGGCGGGT TCTCCGCCAA	TGCGTATTGG ACGCATAACC
1251	GCGCTCTTCC CGCGAGAAGG	GCTTCCTCGC CGAAGGAGCG	TCACTGACTC AGTGACTGAG	GCTGCGCTCG CGACGCGAGC	GTCGTTCCGC CAGCAAGCCG
1301	TGCGGCGAGC ACGCGCTCG	GGTATCAGCT CCATAGTCGA	CACTCAAAGG GTGAGTTTCC	CGGTAATACG GCCATTATGC	GTTATCCACA CAATAGGTGT
1351	GAATCAGGGG CTTAGTCCCC	ATAACGCAGG TATTGCGTCC	AAAGAACATG TTTCTTGAC	TGAGCAAAAG ACTCGTTTTT	GCCAGCAAAA CGGTCGTTTT
1401	GGCCAGGAAC CCGGTCCTTG	CGTAAAAAGG GCATTTTTTCC	CCGCGTTGCT GGCGCAACGA	GGCGTTTTTC CCGCAAAAAG	CATAGGCTCC GTATCCGAGG
1451	GCCCCCTGA CGGGGGGACT	CGAGCATCAC GCTCGTAGTG	AAAAATCGAC TTTTTAGCTG	GCTCAAGTCA CGAGTTCAGT	GAGGTGGCGA CTCCACCCT
1501	AACCCGACAG TTGGGCTGTC	GACTATAAAG CTGATATTTT	ATACCAGGCG TATGGTCCGC	TTTCCCCTG AAAGGGGGAC	GAAGCTCCCT CTTCGAGGGA
1551	CGTGCCTCT GCACGCGAGA	CCTGTTCCGA GGACAAGGCT	CCCTGCCGCT GGGACGGCGA	TACCGGATAC ATGGCTATG	CTGTCCGCT GACAGGCGGA
1601	TTCTCCCTTC AAGAGGGAAG	GGGAAGCGTG CCCTTCGCAC	GCGCTTTCTC CGCGAAAGAG	ATAGCTCAG TATCGAGTGC	CTGTAGGTAT GACATCCATA
1651	CTCAGTTCGG GAGTCAAGCC	TGTAGGTCGT ACATCCAGCA	TCGCTCCAAG AGCGAGGTTT	CTGGGCTGTG GACCCGACAC	TGCACGAACC ACGTGCTTGG
1701	CCCCGTTTCA GGGGCAAGTC	CCCGACCGCT GGGCTGGCGA	GCGCCTTATC CGCGGAATAG	CGGTAACAT GCCATTGATA	CGTCTTGAGT GCAGAACTCA
1751	CCAACCCGGT GGTTGGGCCA	AAGACACGAC TTCTGTGCTG	TTATCGCCAC AATAGCGGTG	TGGCAGCAGC ACCGTCGTCG	CACTGGTAAC GTGACCATTG
1801	AGGATTAGCA TCCTAATCGT	GAGCGAGGTA CTCGCTCCAT	TGTAGGCGGT ACATCCGCCA	GCTACAGAGT CGATGTCTCA	TCTTGAAGTG AGAACTTCAC
1851	GTGGCCTAAC CACCGCATTG	TACGGCTACA ATGCCGATGT	CTAGAAGGAC GATCTTCCTG	AGTATTTGGT TCATAAACCA	ATCTGCGCTC TAGACGCGAG
1901	TGCTGAAGCC ACGACTTCGG	AGTTACCTTC TCAATGGAAG	GGAAAAAGAG CCTTTTTTCTC	TTGGTAGCTC AACCATCGAG	TTGATCCGGC AACTAGGCCG
1951	AAACAAACCA TTTGTTTGTT	CCGCTGGTAG GGCGACCATC	CGGTGGTTTT GCCACCAAAA	TTTGTTTGCA AAACAAACGT	AGCAGCAGAT TCGTCGTCTA
2001	TACGCGCAGA ATGCGCGTCT	AAAAAAGGAT TTTTTTCCTA	CTCAAGAAGA GAGTTCCTCT	TCCTTTGATC AGGAAACTAG	TTTTCTACGG AAAAGATGCC
2051	GGTCTGACGC CCAGACTGCG	TCAGTGGAAC AGTCACCTTG	GAAACTCAC CTTTTGAGTG	GTTAAGGGAT CAATTCCCTA	TTTGGTCATG AAACCAGTAC
2101	AGATTATCAA TCTAATAGTT	AAAGGATCTT TTTCCTAGAA	CACCTAGATC GTGGATCTAG	CTTTTAAATT GAAAATTTAA	AAAAATGAAG TTTTTACTTC

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# FIG. 8C

pMOD (Cm)

2151	TTTTAAATCA	ATCTAAAGTA	TATATGAGTA	AACTTGGTCT	GACAGTTACC
	AAAATTTAGT	TAGATTTTCAT	ATATACTCAT	TTGAACCAGA	CTGTCAATGG
2201	AATGCTTAAT	CAGTGAGGCA	CCTATCTCAG	CGATCTGTCT	ATTTTCGTTCA
	TTACGAATTA	GTCACCTCCG	GGATAGAGTC	GCTAGACAGA	TAAAGCAAGT
2251	TCCATAGTTG	CCTGACTCCC	CGTCGTGTAG	ATAACTACGA	TACGGGAGGG
	AGGTATCAAC	GGACTGAGGG	GCAGCACATC	TATTGATGCT	ATGCCCTCCC
2301	CTTACCATCT	GGCCCCAGTG	CTGCAATGAT	ACCGCGAGAC	CCACGCTCAC
	GAATGGTAGA	CCGGGGTCAC	GACGTTACTA	TGGCGCTCTG	GGTGCGAGTG
2351	CGGCTCCAGA	TTTATCAGCA	ATAAACCAGC	CAGCCGGAAG	GGCCGAGCGC
	GCCGAGGTCT	AAATAGTCGT	TATTTGGTCG	GTCCGGCCTTC	CCGGCTCGCG
2401	AGAAGTGGTC	CTGCAACTTT	ATCCGCCTCC	ATCCAGTCTA	TTAATTGTTG
	TCTTCACCAG	GACGTTGAAA	TAGGCGGAGG	TAGGTCAGAT	AATTAACAAC
2451	CCGGGAAGCT	AGAGTAAGTA	GTTCCGCCAGT	TAATAGTTTG	CGCAACGTTG
	GGCCCTTCGA	TCTCATTTCAT	CAAGCGGTCA	ATTATCAAAC	GCGTTGCAAC
2501	TTGCCATTGC	TACAGGCATC	GTGGTGTCAC	GCTCGTCGTT	TGGTATGGCT
	AACGGTAACG	ATGTCCGTAG	CACCACAGTG	CGAGCAGCAA	ACCATACCGA
2551	TCATTACAGCT	CCGGTTCCCA	ACGATCAAGG	CGAGTTACAT	GATCCCCCAT
	AGTAAGTCGA	GGCCAAGGGT	TGCTAGTTCC	GCTCAATGTA	CTAGGGGGTA
2601	GTTGTGCAAA	AAAGCGGTTA	GCTCCTTCGG	TCCTCCGATC	GTTGTGAGAA
	CAACACGTTT	TTTCGCCAAT	CGAGGAAGCC	AGGAGGCTAG	CAACAGTCTT
2651	GTAAGTTGGC	CGCAGTGTTA	TCACTCATGG	TTATGGCAGC	ACTGCATAAT
	CATTCAACCG	GCGTCACAAT	AGTGAGTACC	AATACCGTCG	TGACGTATTA
2701	TCTCTTACTG	TCATGCCATC	CGTAAGATGC	TTTTCTGTGA	CTGGTGAGTA
	AGAGAATGAC	AGTACGGTAG	GCATTCTACG	AAAAGACACT	GACCACTCAT
2751	CTCAACCAAG	TCATTCTGAG	AATAGTGTAT	GCGGCGACCG	AGTTGCTCTT
	GAGTTGGTTC	AGTAAGACTC	TTATCACATA	CGCCGCTGGC	TCAACGAGAA
2801	GCCCGGCGTC	AATACGGGAT	AATACCGCGC	CACATAGCAG	AACTTTAAAA
	CGGGCCGCAG	TTATGCCCTA	TTATGGCGCG	GTGTATCGTC	TTGAAATTTT
2851	GTGCTCATCA	TTGGAACACG	TTCTTCGGGG	CGAAACTCT	CAAGGATCTT
	CACGAGTAGT	AACCTTTTGC	AAGAAGCCCC	GCTTTTGAGA	GTTCTAGAA
				ApaI	
2901	ACCGCTGTTG	AGATCCAGTT	CGATGTAACC	CACTCGTGCA	CCCAACTGAT
	TGGCGACAAC	TCTAGGTCAA	GCTACATTGG	GTGAGCACGT	GGGTTGACTA
2951	CTTCAGCATC	TTTTACTTTC	ACCAGCGTTT	CTGGGTGAGC	AAAAACAGGA
	GAAGTCGTAG	AAAATGAAAG	TGGTCGCAAA	GACCCACTCG	TTTTTGTCTT
3001	AGGCAAAATG	CCGCAAAAAA	GGGAATAAGG	GCGACACGGA	AATGTTGAAT
	TCCGTTTTAC	GGCGTTTTTT	CCCTTATTCC	CGCTGTGCCT	TTACAACCTA
3051	ACTCATACTC	TTCTTTTTTC	AATATTATTG	AAGCATTAT	CAGGGTTATT
	TGAGTATGAG	AAGGAAAAAG	TTATAATAAC	TTCGTAAATA	GTCCCAATAA
3101	GTCTCATGAG	CGGATACATA	TTTGAATGTA	TTTAGAAAAA	TAAACAAATA
	CAGAGTACTC	GCCTATGTAT	AAACTTACAT	AAATCTTTTT	ATTTGTTTAT
3151	GGGGTTCCGC	GCACATTTCC	CCGAAAAGTG	CCACCTGACG	TCTAAGAAAC
	CCCCAAGGCG	CGTGTAAGG	GGCTTTTCAC	GGTGGACTGC	AGATTCTTTG
3201	CATTATTATC	ATGACATTAA	CCTATAAAAA	TAGGCGTATC	ACGAG
	GTAATAATAG	TACTGTAATT	GGAATATTTT	ATCCGCATAG	TGCTC